

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/080803 A1

(51) International Patent Classification⁷: **F16B 31/04**,
39/00, B25B 29/02, F16L 23/036

(21) International Application Number:
PCT/AU2005/000254

(22) International Filing Date: 25 February 2005 (25.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2004900923 25 February 2004 (25.02.2004) AU

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

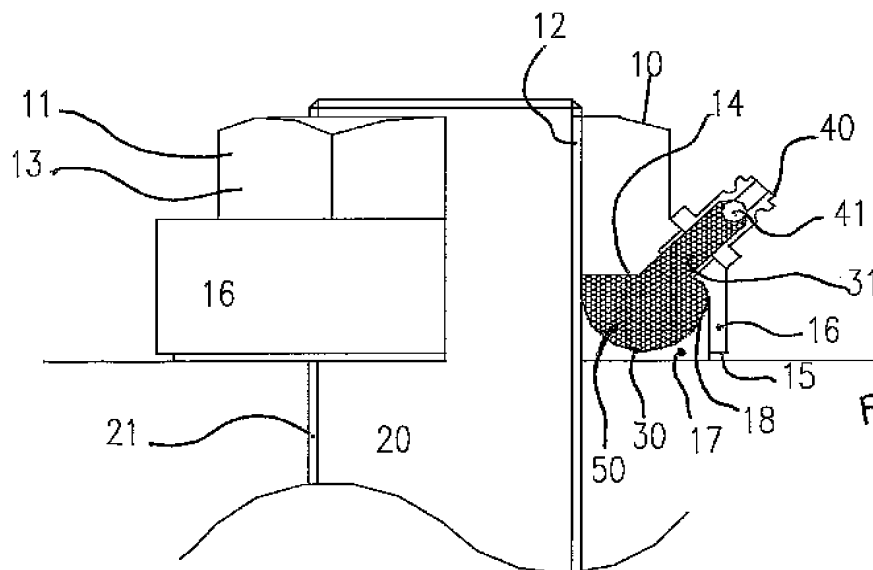
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: HYDRAULICALLY ASSISTED FASTENERS



(57) Abstract: Hydraulically assisted fastener (10) comprises a body (11) with a central bore (12) to engage a connector element (20) and with an annular recess (14) opening outwards to an end surface (15). Annular thrust member (17) fits into and seals the recess (14). Charging medium (50) is injected under pressure into annular chamber (30) defined by recess (14) and member (17) and moves body (11) relative to member (17) to tension element (20). Medium (50) sets in chamber (30) to maintain the tension in element (20). Element (20) may be a bolt or stud, body (11) can be a nut and member (17) can be a plan washer. Medium (50) can be a curable viscous paste, a suspended solid in a self-setting compound or a particulate solid which behaves as a fluid. Suitable materials include graphite, and lead, copper or steel balls.

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